

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently amended) A disk loading apparatus comprising:

a roller for pulling in and ejecting a disk;

a disk-pass detecting switch for detecting a pass of the disk when the disk is ejected;

a disk discriminator that discriminates the size of the disk; and

a controller for storing a predetermined ~~controlling, in response to a discrimination result~~
~~by said disk discriminator, an operation time of said roller~~ corresponding to the discriminated
size, and for having said roller operate for the predetermined operation time after the pass of the
disk being ejected is detected.
2. (Original) The disk loading apparatus according to claim 1, wherein disks having
center holes of various sizes are ejected out of said disk loading apparatus by substantially same
distances.
3. (Previously presented) The disk loading apparatus according to claim 1, wherein the
ejecting of the disk is stopped when the center holes of the disk is out of said disk loading
apparatus.
4. (Original) The disk loading apparatus according to claim 1, wherein said disk-pass
detecting switch is also used for discriminating the size of the disk.
5. (Original) The disk loading apparatus according to claim 4, wherein the size of the
disk is discriminated based on a period from a time when the disk starts passing over said disk-
pass detecting switch to a time when the disk is pulled in.

6. (Original) The disk loading apparatus according to claim 4, wherein the size of the disk is discriminated based on a period from a time when the disk starts to be ejected to a time when said disk-pass detecting switch detects a pass of the disk.

7. (Currently amended) The disk loading apparatus according to claim 2, wherein the ejecting of the disk is ~~stopped ejecting~~ when the center holes of the disk is out of said disk loading apparatus.

8. (Currently amended) A method of ejecting a disk from a disk loading apparatus, the method comprising the steps of:

ejecting a disk;

detecting a pass of the disk when the disk is being ejected;

discriminating the size of the disk;

storing a predetermined operation time corresponding to the discriminated size; and

having the roller operate for the predetermined ~~controlling, in response to the discriminated size, an~~ operation time of ejecting the disk.

9. (Previously presented) The method of ejecting a disk according to claim 8. wherein the step of controlling an operating time of ejecting the disk controls the operation time of a roller for ejecting the disk according the equation $T=A/V$, where

T is the operation time of the roller for ejecting the disk after the pass of the disk being ejected is detected;

A is a predetermined ejection distance; and

V is an ejecting velocity of the roller for ejecting the disk.

10. (Previously presented) The method of ejecting a disk according to claim 8, wherein the step of discriminating the size of the disk discriminates the size of the disk during a disk

loading operation based on a period from a time when the disk starts to pass over a disk-pass detector to a time when the disk is loaded.

11. (Previously presented) The method of ejecting a disk according to claim 8, wherein the step of discriminating the size of the disk discriminates the size of the disk during a disk ejecting operation based on a period of time from the start of the disk ejecting operation to a time when the disk is detected by a disk-pass detector.

12. (Previously presented) The method of ejecting a disk according to claim 8, wherein the step of discriminating the size of the disk discriminates the size of the disk based on a period of time for the disk, when mounted on a turntable, to rotate at a predetermined speed from a stopped position.

13. (New) The disk loading apparatus according to claim 1,
wherein said roller is operable for pulling in and ejecting another disk having an another
size different from the size of the disk, and

wherein said controller is operable for:
storing another predetermined operation time of said roller corresponding to the
another size, and

having said roller operate for the another predetermined operation time after the
pass of the another disk being ejected is detected.

14. (New) The method according to claim 8, further comprising the steps of:
storing another predetermined operation time of said roller corresponding to the another
size; and

having said roller operate for the another predetermined operation time after the pass of
the another disk being ejected is detected.